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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>6</sup> :</b> <b>D21H 15/04, 21/42, B44F 1/12</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 99/45200</b> <b>(43) International Publication Date:</b> 10 September 1999 (10.09.99)
<b>(21) International Application Number:</b> PCT/KR99/00087 <b>(22) International Filing Date:</b> 26 February 1999 (26.02.99)  <b>(30) Priority Data:</b> 1998/6705                      2 March 1998 (02.03.98)                      KR  <b>(71) Applicant (for all designated States except US):</b> KOREA SECURITY PRINTING AND MINTING CORPORATION [KR/KR]; 35, Kajong-dong, Yusong-gu, Taejon 305-350 (KR).  <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> KIM, Jong, Kyu [KR/KR]; Kangbyun Apt. 109-1702, Mannyun-dong, Seo-gu, Taejon 302-150 (KR). PARK, Yong, Hwan [KR/KR]; Green Town Apt. 106-405, Beob-dong, Taeduk-gu, Taejon 306-060 (KR).  <b>(74) Agents:</b> JANG, Seong, Ku et al.; 17th floor, KEC Building, 275-7, Yangjae-dong, Seocho-ku, Seoul 137-130 (KR).		<b>(81) Designated States:</b> CN, RU, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report.</i>
<b>(54) Title:</b> SECURITY FIBERS AND PROCESS FOR THE PREPARATION THEREOF  <b>(57) Abstract</b>  Security fibers having enhanced antifalsification features are prepared by a process which comprises the steps of: i) braiding 5 to 30 denier fibers to form a twine; ii) dyeing the twine with a dye or pigment; iii) drying the dyed twine; and then iv) cutting the dried twine to give the security fibers in the form of cut fibers.		

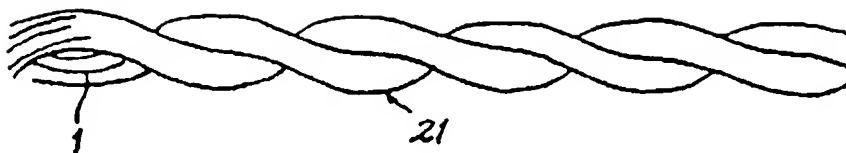
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What is claimed is:

1. A process for preparing security fibers which comprises the steps of: i) braiding 5 to 30 denier fibers to  
5 form a twine; ii) dyeing the twine with a dye or pigment; iii) drying the dyed twine; and then iv) cutting the dried twine to give the security fibers in the form of cut fibers.
- 10 2. The process of claim 1, further comprising the step of v) dyeing the cut fibers with another dye or pigment after step iv).
3. The process of claim 1 or 2, wherein the twine is in the form of a two-thread plait.  
15
4. The process of claim 1 or 2, wherein the twine is in the form of a three-thread plait.
5. The process of claim 2, wherein the cut fibers are  
20 dyed at a temperature ranging from 80 to 100°C.
6. A security fiber prepared by the process of any one of claims 1 to 5.
- 25 7. A security paper containing the security fiber prepared by the process of any one of claims 1 to 5.

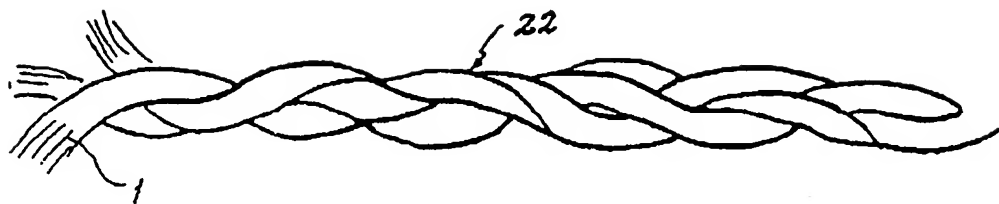
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*Figure 1*



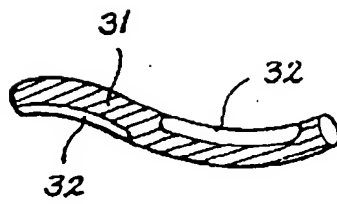
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*Figure 2*



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*Figure 3*



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*Figure 4*

